Digital Audio Corporation

GSA ★

Federal Supply Schedule
Contract No. GS-03F-4062B

GENERAL SERVICES ADMINISTRATION

Federal Supply Service

Authorized Federal Supply Schedule Price List

On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order is available through **GSA** *Advantage!*[TM], a menu-driven database system. The INTERNET address for **GSA** *Advantage!*[TM] is: **http://www.gsa.gov.**

Title (Commodity): Professional Audio/Video
Telecommunications and Security Solutions

General Description of Commodity: Digital Audio Filtering/
Enhancement/Transcription Equipment

FSC Group 58, Part III, Section B
FSC Class: 5835

CONTRACT NUMBER: GS-03F-4062B
(Modification Number PS-0040)
CONTRACT PERIOD: April 1, 1994 through March 31, 2013

Digital Audio Corporation
4018 Patriot Drive Suite 300
Durham, NC 27703
TELEPHONE: 877 DACAUD (877 532 2283)
FAX: 877 5DACFAX (877 532 2329)
Web: http://www.dacaudio.com

BUSINESS SIZE: Small
Customer Information: Page 2

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Effective
May 1, 2011

CUSTOMER INFORMATION

1. Table of awarded special item number with appropriate cross-reference to catalog page number:
   Special Item Number 58-4 *Audio Equipment, Including Spare Parts and Accessories*: catalog pages 3-7
   Special Item Number 58-8 *Professional Audio/Video Assessment, Design, and Integration*: catalog pages 8-11

2. Maximum Order: Contractor reserves the right to refuse by written notice within five business days any single order larger than $50,000.

3. Minimum Order: The minimum dollar value of orders to be issued under this contract is $100.

4. Geographic Coverage: Continental States, Alaska, Hawaii, Puerto Rico.

5. Point of Production: Manufacturer's facility in Durham, Durham County, North Carolina.

6. Discounts: Basic Discounts - Prices listed herein are "NET;" basic discounts have been deducted from commercial price list. Any of the models of DAC products listed as special item number 58-4 may be combined on a single order to qualify for the quantity discount prices. Discounts are relative to commercial price list.

7. Quantity Discounts: For all products under Special Item Number 58-4, Quantity 1-2 (~ 8.75%); quantity 3 -19 (~9.75%); quantity 20 or more (~11.25%) – Net IFF. For all services under Special Item Number 58-8, 8.75% standard discount (Net IFF); quantity discounts may be ne-gotiated on a project-specific basis.

8. Prompt Payment Terms: For all products under Special Item Number 58-4, 1% 20 days from receipt of invoice or date of acceptance, whichever is later. For all services under Special Item Number 58-8, no additional discount; NET 30 days from receipt of invoice or date of acceptance, whichever is later.

9a. Government Commercial Credit Card: Accepted.
9b. Discount for payment of Government Commercial Credit Card: None.

10. Foreign Produced Items: None.

11a. Time of Delivery: 45 days after receipt of order.
   11b.   Expedited Delivery: All products in this Federal Supply Schedule Price List are available on an expedited basis. Contact the contractor to determine best available delivery. Expedited delivery carries a 5% premium.
   11c.   Overnight and 2-Day Delivery: Contractor does not normally stock products. Contact the contractor to determine best available delivery and any additional charges applicable.
   11d.   Urgent Requirements: Contractor does not normally stock products. Contact the contractor to determine best available delivery and any additional charges applicable.

12. F.O.B. Points: Destinations within Continental States, Alaska, Hawaii, Puerto Rico, and Washington, D.C.

13. Ordering Address: 4018 Patriot Drive, Suite 300, Durham, North Carolina 27703.

14. Payment Address: 4018 Patriot Drive, Suite 300, Durham, North Carolina 27703.

15. Warranty Provision: All necessary adjustments to equipment procured under this contract, not occasioned by accident or misuse, shall be made by the contractor at his own expense, including transportation costs, if any, during the 90-day period after delivery. All equipment procured here under is guaranteed for a period of 24 months from delivery, except expendable items such as cassettes and media cards. During the guarantee period, all broken or defective parts not caused by accident or misuse through fault or negligence by the Government will be replaced (including parts and labor) at the contractor's expense, including transportation costs, if any.

16. Export Packing Charges: Outside the scope of this contract.

17. Terms and Conditions of Government Commercial Credit Card: Credit cards accepted.

18. Terms and Conditions of Rental, Maintenance, and Repair: Outside the scope of this contract.

19. Terms and Conditions of Installation: Outside the scope of this contract.

20. Terms and Conditions of Repair Parts Indicating Date of Parts Pricelists and Any Discounts from List Prices: Outside the scope of this contract.

21. Service and Distribution Point: 4018 Patriot Drive, Suite 300, Durham, NC 27703.

22. List of Participating Dealers: None.

23. Preventive Maintenance: Outside the scope of this contract.

24. Year 2000 (Y2K) compliant: Compliant

25. Environmental attributes, e.g., recycled content, energy efficiency, and/or reduced pollutants: We incorporate environmentally sound practices into all aspects of our business.

26. Data Universal Number System (DUNS) number: 099168312

27. Central Contractor Registration (CCR) database: Registered in CCR (http://www.ccr.gov); CAGE Code is 0E3F1.

SPECIAL ITEM NO. 58-4

All prices listed are Government net price. Discounts have been deducted.
For detailed equipment specifications, please contact DAC.

Audio Enhancement Systems

CARDINAL, Forensic Audio Processor (Overview)

CARDINAL takes forensic audio processing and analysis to the next level. Fully integrating the capabilities of both hardware and software, CARDINAL seamlessly handles forensic analysis and processing of all analog and digital media. The powerful AccelCore external processor hardware, based on the Analog Devices TigerSHARC® floating-point DSP, provides all audio I/O and implements comprehensive real-time filtering operations including Comb filter, 1CH Adaptive and Reference Canceller filters, Spectral Subtraction noise reduction filters, Spectral Inverse filters, and numerous other standard filters, equalizers, and dynamic level processors. Software-based DirectX plug-ins are also supported in real-time within the AudioLab software environment, including Clipped-Peak Restoration, Declicker / Decrackler, and Denoiser tools. All filters and visualization tools support multiple instances up to the maximum resource limitations of the PC, the IEEE-1394 "Firewire" interface, and the particular AccelCore hardware that is purchased. A special "ASIO" driver allows direct handling of file-based digital media, and also allows many third-party software products (including Adobe Audition and Sound Forge) to directly utilize the AccelCore for their audio I/O. CARDINAL's virtual patching capability eliminates awkward patch panels for most laboratory installations. Purchase includes one copy of the Adobe Audition 3.0 audio file management tool.

♦ **CARDINAL Tech Agent, AudioLab Software + AccelCore LE Hardware**

CARDINAL Tech Agent provides the most typically needed signal processing and audio input/output capabilities, and is recommended for most practical audio clarification applications. Though typically rack-mounted in a fixed installation, the compact hardware, when combined with a good laptop computer, can also provide a complete, portable audio laboratory. Specific hardware capabilities of the AccelCore LE include: 5-chip TigerSHARC® DSP array, 2 channels of RCA analog I/O, TOSLINK optical digital I/O (which can optionally operate in ADAT 8-channel mode), S/PDIF coaxial digital I/O, TOSLINK optical digital monitor output for connecting digital amplified loudspeakers (such as the Edirol MA-15D), and dual front-panel 3.5mm stereo headphone jacks. Also, a 3.5mm "mini" analog input jack is provided on the front panel for quick connection of unusual devices, such as miniature recorders, digital audio players, etc. AccelCore LE is powered by an external universal AC power supply, and interfaces with any modern Windows-based PC (Windows XP or Vista, dual displays recommended) that provides at least one available IEEE-1394a connection. It is a 1U (1.75" height), 8.5" half-rack mountable unit, which can also be placed in a convenient vertical orientation on a desktop using the special base plate; both the base plate and rack mount ears suitable for installation in a 19" equipment rack are included with purchase.
    GSA net price qty 1-2, $15,421; qty 3-19, $15,252; qty 20 or more, $14,999

♦ **CARDINAL Forensic Examiner, AudioLab Software + AccelCore 24/192 Hardware**

CARDINAL Forensic Examiner provides maximum signal processing and audio input/output capacity for the AudioLab software environment, and is recommended for use in advanced forensic audio laboratories where multiple types of analog and digital audio source material may need to be handled on a daily basis. Specific hardware capabilities of the AccelCore 24/192 include: 9-chip TigerSHARC® DSP array, 8 channels of balanced analog I/O, AES/EBU digital I/O, dual TOSLINK optical digital I/O, dual S/PDIF coaxial digital I/O, ADAT 8-channel optical I/O, dual monitor outputs for connecting amplified speakers, and dual front-panel ¼" stereo headphone jacks. Also, one additional TOSLINK digital input and two RCA analog input jacks are provided on the front panel for quick connection of unusual devices, such as miniature recorders. AccelCore 24/192 is powered by a built-in universal AC power supply, and interfaces with any modern Windows-based PC (Windows XP or Vista, dual displays recommended) that provides at least one available IEEE-1394a connection. It is a 3U (5.25" height), 19" rack-mountable unit; rack mount ears are included with purchase.
    GSA net price qty 1-2, $22,721; qty 3-19, $22,472; qty 20 or more, $22,099

♦ **Legacy Product Upgrade to CARDINAL Tech Agent**

Upgrade of one MCAP, PCAP II, PCAP II Plus, or PCAP4600S to one set of CARDINAL AudioLab Software + AccelCore LE Hardware. **Valid serial number must be provided to DAC to qualify for upgrade**.

    GSA net price qty 1-2, $13,724; qty 3-19, $13,574; qty 20 or more, $13,348

♦ **Legacy Product Upgrade to CARDINAL Forensic Examiner**

Upgrade of one MCAP, PCAP II, PCAP II Plus, or PCAP4600S to one set of CARDINAL AudioLab Software + AccelCore 24/192 Hardware. **Valid serial number must be provided to DAC to qualify for upgrade**.

    GSA net price qty 1-2, $20,531; qty 3-19, $20,306; qty 20 or more, $19,969

♦ **Tweet Filter Software Suite**

DirectX Tweet Filter for use with Cardinal Audiolab Systems and Audio Editing Software (includes console application for stand-alone use). This filter is designed to address "tweet" noise issues commonly found in optical microphone audio collection.

    GSA net price qty 1-2, $2,733; qty 3-19, $2,703; qty 20 or more, $2,658

QuickEnhance® Studio (Overview)

QuickEnhance® Studio is a comprehensive forensic audio clarification software solution, designed to efficiently clarify digital audio recordings on Microsoft Windows® -based (XP, Vista, or 7) computers. Key features include: self-contained audio clarification solution (no other software or hardware required), comprehensive toolset for most real-world noises and effects (reference noise cancellation also available in the Ultimate Edition), flexible "Filter Chain" methodology (similar to CARDINAL), spectral analysis and monitoring of before and after audio (or any point in the signal chain for Premium and Ultimate Editions), ability to directly open standard audio file formats (e.g. WAV and AIF) and save result audio to a new file, real-time Preview of filter settings (with faster-than-real-time Render of the finished file), Multiple Region capability to allow different filters and settings to be applied to specified sections of the audio (Ultimate Edition only). Each Edition includes first year of annual maintenance at no additional charge, which grants download access to all software updates and feature enhancements to the purchased tier level as they become available.

Three Tier Levels of QuickEnhance® Studio to Choose From:

♦ **QuickEnhance® Studio, Standard Edition (Base Package)**

Filters: Highpass, 1CH Adaptive (LMS algorithm, limited to 1024 taps), Noise Reducer (spectral subtraction), Comb, 20-Band Equalizer, AGC.
Spectrum Analyzer: Single window with dual-trace capability to display before and/or after audio frequency response.
Monitoring: Before or after audio only.
Supported File Formats: Can open any uncompressed WAV or AIF file recorded in mono or stereo format at standard sample rate of 8 to 48 kHz.
Operation: Processes and renders output file strictly at same format and sample rate as original input audio file. Generates ASCLD/LAB-compliant report.
> **GSA net price qty 1-2, $1,638; qty 3-19, $1,620; qty 20 or more, $1,593**

♦ **QuickEnhance® Studio, Premium Edition (Upgrade from Standard Edition) ***

All features of Standard Edition, plus:
Filters: Notch and Slot (both single- and multi-), Bandpass, Bandstop, Spectral Inverse Filter (both manual and automatic), Noise EQ (improved spectral subtraction), Hi-Res Graphic and Parametric Equalizers, Limiter-Compressor-Expander, increase to 2048 taps on 1CH Adaptive filter, multiple factory preset solutions.
Spectrum Analyzer: Multiple windows available, can display frequency response(s) at any point(s) in signal chain.
Monitoring: Can monitor audio at any point in the signal chain.
Supported File Formats: Can open standard compressed file formats including MP3, "mu-law" or "A-law" WAV, and ADPCM WAV. Can resample input file to desired format and sample rate prior to analysis and filtering. Analog source(s) can be digitized to file(s) prior to analysis and filtering.
Operation: Input audio format can be converted and output file can be saved to any specified format and sample rate.
> **GSA net price qty 1-2, $1,820; qty 3-19, $1,800; qty 20 or more, $1,771**

♦ **QuickEnhance® Studio, Ultimate Edition (Upgrade from Premium Edition) ***

All features of Premium Edition, plus:
Filters: Reference Cancellation (LMS algorithm, up to 4096 taps on both 1CH Adaptive and Reference Cancellation), DirectX and VST plug-in hosting.
Spectrum Analyzer: Waterfall analysis and high-resolution zooming capabilities. Audio file can be viewed either as a waveform (normal mode) or spectrographic display.
Monitoring: Can monitor primary and reference signals in separate ears to aid in time alignment
Supported File Formats: Can open standard video file formats such as AVI, MOV, WMV, and MPG and work with the audio portion. Processed audio can be saved to a new video file along with the original video.
Operation: Can operate on the audio portion of a video file. Also, audio can be divided into regions with separate filter solution applied to each.
> **GSA net price qty 1-2, $2,733; qty 3-19, $2,703; qty 20 or more, $2,658**

Annual Maintenance Options (Must be purchased for continued access to software updates beyond first year) *:

QES-AMS   Base Annual Maintenance for QE Studio Standard Edition
> **GSA net price qty 1-2, $324; qty 3-19, $320; qty 20 or more, $315**

QES-AMP   Additional Annual Maintenance for Premium Edition (upgraded from Standard Edition)
> **GSA net price qty 1-2, $360; qty 3-19, $356; qty 20 or more, $351**

QES-AMU   Additional Annual Maintenance for Ultimate Edition (upgraded from Premium Edition)
> **GSA net price qty 1-2, $543; qty 3-19, $537; qty 20 or more, $528**

* Purchase of any upgrade may require additional purchase of annual maintenance for the Edition being upgraded, with term pro-rated as necessary for concurrence with the included first year of maintenance on the upgrade.

♦ **QuickEnhance®/ AS Audio Suite Plug-In**

QuickEnhance® /AS provides a comprehensive, easy-to-use, forensic audio enhancement toolkit for use with Avid Xpress® and Digidesign® Pro Tools systems. It has five powerful digital processing stages to attack a wide variety of common noises, including AC hum, engines sounds, static, wind, hiss, and acoustical reverberations. Advanced features include an auto-tracking 50/60 Hz hum filter, adaptive deconvolver, broadband noise reduction filter, 10-band graphic equalizer, and automatic gain control. Also included is a dual-trace spectrum analyzer, which allows visual comparison of before and after audio. QuickEnhance /AS is compatible with Avid Xpress Win 2000, Avid Xpress Pro/DV, and Avid Adrenaline systems. QuickEnhance /AS is also compatible with Digidesign Pro Tools 6.0 systems and higher, running under Windows XP.

> **GSA net price qty 1-2, $1,182; qty 3-19, $1,169; qty 20 or more, $1,149**

Specialty Audio Processors

♦ **MERIDIAN Tactical Audio Clarification Processor**

MERIDIAN is specifically designed as a tactical, or "sharp-end", audio processor, able to provide voice activity detection and audio clarification near the source of the live audio signal and ahead of whatever link might be used to convey it to a remote monitoring or collection point. A downstream audio collection system can then be alerted to actual voice activity by means of either "C-Tone" audio signaling or IP metadata. Clarification processing includes: 1CH Adaptive and Reference Canceller filters, Comb filter, Spectral Subtraction noise reduction, Spectral Inverse filter, other standard filters and equalizers, and Automatic Gain Control. Audio filter settings can be programmed into any of the ten switch-selectable preset memories upon installation and/or remotely configured on-the-fly, via either USB or Ethernet interface. Balanced audio input and output is accomplished via "Phoenix" terminal strip connectors. Three 3.5mm "mini" jacks are also provided to allow standard line-level audio and headphone connections, as well as S/PDIF digital audio connections by means of special breakout adaptors (included). MERIDIAN operates on 12 VDC, or with the supplied universal AC adaptor. Included in the basic package are the USB interface cable, universal AC adaptor, two mini-jack breakout adaptors, software CD, and user manual.

> **GSA net price qty 1-2, $3,189; qty 3-19, $3,154; qty 20 or more, $3,102**

If rack mounting required…

> **MER-RMK**   MERIDIAN 1U x 19" 4-Unit Rack Mount Kit
>
> **GSA net price qty 1-2, $228; qty 3-19, $226; qty 20 or more, $222**

♦ **MicroDAC 5 Stereo Multi-Reference Canceller**

The fifth-generation MicroDAC 5 utilizes the latest floating-point DSP technology to offer unprecedented real-time performance and ease of use for "sharp-end" filtering applications such as radio/TV audio cancellation. With four channels of input and two channels of output, up to 3 independent references can be cancelled from a monaural audio source, or up to 2 independent references can be cancelled from a stereo source to produce a stereo processed output. Processing can be performed at bandwidths of 5, 10, or 20 kHz, depending upon the desired audio quality. The USB interface allows the advanced user to interactively operate the unit and optionally store a special filter setup into the unit's flash memory for stand-alone use. A special lock/unlock key sequence helps to prevent accidental tampering and also allows clearing of any stored program. MicroDAC 5 is powered by 9-18 VDC, and includes TOSLINK and S/PDIF digital inputs and 44.1kHz TOSLINK digital output. This allows direct digital interconnection with common digital recorders and digital wireless microphone receivers. Included in the basic package are the USB interface cable, car lighter adaptor cable, universal AC adaptor, Windows® software CD, and user manual.

> **GSA net price qty 1-2, $6,844; qty 3-19, $6,769; qty 20 or more, $6,656**

♦ **QuickEnhance® QE-1500, Tactical Audio Processor**

QuickEnhance® QE-1500 is a tactical audio processing field kit. It offers five stages of robust, stereo digital signal processing including an adjustable 50/60 Hz hum filter, broadband noise reduction filter, adaptive deconvolver, 10-band graphic equalizer, and automatic gain control. QE-1500 features both analog I/O and digital I/O, including S/PDIF and TOSLINK formats. A mini-disc digital recorder is mounted in the QE-1500 case to allow digital recording of the processed audio. Packaged in a Pelican® rugged carrying-case, the QE-1500 offers fast, simple, effective audio processing to go!

> **GSA net price qty 1-2, $3,495; qty 3-19, $3,457; qty 20 or more, $3,399**

♦ **QuickEnhance® QE-10, Audio Processor**

Identical to QE-1500, except 2U x 19" rack-mount packaging, shallow 8" depth form factor, and 9-18 VDC power input (universal AC adaptor included), ideal for surveillance van installation. No recorder included with the QE-10, unit is audio processor only.

> **GSA net price qty 1-2, $2,496; qty 3-19, $2,468; qty 20 or more, $2,427**

Audio Collection Products

SSABR® Audio Recorders

DAC offers three models of the SSABR audio recorder: SSABR Mini, SSABR G3, and SSABR Pendant. SSABR Mini is our latest design and smallest aluminum-housed recorder, providing one internal microphone and one multi-function connector for attaching any of the external accessories listed below. SSABR G3 is a larger aluminum-housed unit, providing dual internal microphones for fully self-contained stereo recording, dual multi-function connectors for simultaneously attaching any two of the listed accessories, a headphone connector for local playback of recordings by the user, and a large internal battery for longest run times, especially when the SG3-OSTX transmitter is attached. SSABR Pendant is a specialized stereo "keyfob" concealment recorder, providing dual internal microphones but no external accessory items. All SSABR recorders offer excellent recording quality with the DACPak lossless compression algorithm and easy-to-use Windows® configuration and download software. Additionally, all provide the TrueDAC Digital Signature capability which, when combined with the TrueDAC Verifier Package (sold separately), allows the integrity of downloaded audio "image" files to be verified.

◆ **SSABR Mini Audio Recorder with Aluminum Housing**
SSABR Mini's enclosure is 0.95"W x 2.6"L x 0.4"H and features single internal microphone, single "nano" connector for attaching one external accessory item *(optional, listed separately below)*, single pushbutton and simple LED indicator for accessing features, and a rechargeable Lithium-Ion battery. SSABR Mini is configured with 2GB of flash memory for record times of 25.6 hours stereo or 51.2 hours mono (5kHz bandwidth setting). Maximum run time on the internal battery is approximately 9 hours. Included in the base package are one SG3-EXMM external microphone (described below), the USB downlink cable, SSABR software CD, user manual, special screwdriver for attaching optional accessories, and plastic carrying case.
> **GSA net price qty 1-2, $1,820; qty 3-19, $1,800; qty 20 or more, $1,771**

◆ **SSABR G3-24 Audio Recorder with Aluminum Housing**
SSABR G3's compact, rugged enclosure is 1.9"W x 2.6"L x 0.4"H, and features stereo internal microphones, dual "nano" connectors for attaching any two of the external accessory items *(optional, listed separately below)*, a 2.5mm stereo headphone jack for local audio playback, LCD text indicator and three pushbuttons for accessing features, and a rechargeable Lithium-Ion battery. SSABR G3 is configured with 2GB of flash memory for record times of 25.6 hours stereo or 51.2 hours mono (5kHz bandwidth setting). Maximum run time on the internal battery is approximately 12 hours. Included in the base package are the USB downlink cable, SSABR software CD, user manual, special screwdriver for attaching optional accessories, and plastic carrying case.
> **GSA net price qty 1-2, $1,638; qty 3-19, $1,620; qty 20 or more, $1,593**

◆ **SSABR Pendant Audio Recorder with Plastic "Keyfob" Concealment**
SSABR Pendant's plastic "keyfob" case is 1.4"W x 2.2"L x 0.5"H and features dual internal microphones, simple rubber pushbuttons and recessed LED indicators for accessing features, recessed mini connector for connection of download / programming adaptor (included in kit), and a rechargeable Lithium-Ion battery. SSABR Pendant is configured with 2GB of flash memory for record times of 25.6 hours stereo or 51.2 hours mono (5kHz bandwidth setting). Maximum run time on the internal battery is approximately 4.5 hours. Included in the base package are the USB download / programming adaptor and cable, SSABR software CD, user manual, and plastic carrying case.
> **GSA net price qty 1-2, $1,455; qty 3-19, $1,439; qty 20 or more, $1,416**

◆ **TrueDAC Verifier Package**
Special software CD and USB decoding key, used for verifying the integrity of SSABR image files and original download media via the TrueDAC Digital Signature mechanism.
> **GSA net price qty 1-2, $908; qty 3-19, $898; qty 20 or more, $883**

◆ **SG3-OSTX Officer Safety Transmitter**
Sixteen channel officer safety transmitter add-on accessory for SSABR G3, offers channel selectable features for deviation, frequency, and AGC, and locking connector.
> **GSA net price qty 1-2, $2,550; qty 3-19, $2,522; qty 20 or more, $2,481**

◆ **SG3-EXSM Stereo External Microphone**
Stereo External Microphone Harness with 3-ft. cables.
> **GSA net price qty 1-2, $315; qty 3-19, $311; qty 20 or more, $306**

◆ **SG3-EXMM Mono External Microphone**
Mono External Microphone Harness with 3-ft. microphone cable and 9V battery adaptor.
> **GSA net price qty 1-2, $224; qty 3-19, $221; qty 20 or more, $217**

◆ **SG3-EXS External Slide Switch**
External Slide Switch Harness with 6-ft. cable and 9V battery adaptor.
> **GSA net price qty 1-2, $178; qty 3-19, $176; qty 20 or more, $173**

◆ **SG3-LINP Line Input Adaptor Kit**
3-foot stereo RCA input adaptor cable, allowing input of line-level source for recording.
> **GSA net price qty 1-2, $132; qty 3-19, $131; qty 20 or more, $129**

SSABR® Audio Recorders (continued)

♦ **SG3-CCH Car Charger Kit**
6-foot cable with cigarette lighter plug, allowing charging from 12VDC automotive power. Also includes line output adaptor.
> **GSA net price qty 1-2, $132; qty 3-19, $131; qty 20 or more, $129**

♦ **SG3-9VLN Battery and Line Output Adaptor**
9V battery and line output adaptor, allowing extended record times beyond that available with the internal battery alone and connection of audio to external devices.
> **GSA net price qty 1-2, $132; qty 3-19, $131; qty 20 or more, $129**

♦ **SG3-TP3CX Cellphone Recording Interface**
"Earbud" microphone with 3-foot cable, special shielding, and noise filtering, which is connected to the SSABR and placed between the ear and any mobile phone to allow clear recording of both sides of the conversation without RF interference.
> **GSA net price qty 1-2, $178; qty 3-19, $176; qty 20 or more, $173**

♦ **SG3-TR1 Landline Telephone Recording Interface**
Special modular adaptor with 3-foot cable, which is connected to the SSABR and placed between the handset and the base station of most landline telephones to allow clear recording of both sides of the conversation.
> **GSA net price qty 1-2, $151; qty 3-19, $149; qty 20 or more, $146**

Audio Countermeasures Products

♦ **PIP II Probe Interface Pod**

The PIP II is a high performance amplifier designed specifically for countermeasures. It features a built-in phantom power supply and has sheathed banana jacks to protect the user. PIP II removes hum, allowing up to 80 dB of gain to be applied, and is powered by the universal AC adaptor or two 9V alkaline batteries (included).

> **GSA net price qty 1-2, $684; qty 3-19, $677; qty 20 or more, $666**

♦ **TIP II Transducer Interface Pod**

The TIP II is a high performance amplifier designed for use with all types of microphones and accelerometers. The unit is suitable for both countermeasures and surveillance applications, and is powered by the universal AC adaptor or two 9V batteries (included).

> **GSA net price qty 1-2, $684; qty 3-19, $677; qty 20 or more, $666**

Optional Accessory Items for Countermeasures Products:

TIP-AWC   Low-Noise Accelerometer w/ 6' cable and Mounting Wax
> **GSA net price qty 1-2, $753; qty 3-19, $745; qty 20 or more, $732**

TIP-MIC   Low-Noise Microphone w/ 20' cable
> **GSA net price qty 1-2, $205; qty 3-19, $203; qty 20 or more, $200**

SPECIAL ITEM NO. 58-8

All prices listed are Government net price. Discounts have been deducted.

Product Education and Training

♦ **Accelerated DAC School**   **$908**

Based on DAC's CARDINAL forensic audio platform, Accelerated DAC School is a five-day intensive training course intended to provide practical instruction on forensic audio processing concepts, advanced techniques, and third-party tools that can be used in conjunction with DAC's tools. Both the novice technical investigator and the experienced audio technician should benefit from this 50% classroom, 50% hands-on training experience. The course is typically held twice a year at selected conference hotels in the United States, and typically features one DAC-paid dinner and one additional DAC-paid social event for all participants during the week, depending on the location and time of year. Other travel, lodging, and meals expenses are not included in the tuition cost; however, DAC generally negotiates special conference hotel rates (to include free breakfast) and local restaurant discounts for these courses. Information on the hotel will be provided with the course registration materials, and restaurant discount coupons will be provided on the first day of class. Please contact DAC for course registration and hotel information. Participation is limited to 20 students.

♦ **Three-Day DAC School**   **$1364**

Based on DAC's CARDINAL forensic audio platform, the Three-Day DAC School provides one day of lecture on forensic audio concepts and theory and two days of practical and hands-on training at the DAC facility in Durham, NC. Unlike the Accelerated DAC Schools, which are specially-organized events, this course is generally available once per month, year-round, and private sessions can also be arranged. Please contact DAC to find out when the next session is available, or to arrange a private session if desired (at least 3 students are required for private sessions). All travel, lodging, and meals expenses are the sole responsibility of each student, including transportation between the hotel and the DAC facility each day; however, there are several nearby hotels that provide free shuttle service, to include both the RDU airport and the DAC facility. Please contact DAC for course registration and local hotel information. Please note that the enrollment for each session closes at 30 days prior to the scheduled date; confirmation will be provided to all registered attendees at that point, and the tuition cost will be invoiced and/or charged to the attendee's credit card. Participation is limited to 8 students.

♦ **On-Site Accelerated DAC School – 10 students**   **$9,581**

Based on DAC's CARDINAL forensic audio platform, Accelerated DAC School is a five-day intensive training course intended to provide practical instruction on forensic audio processing concepts, advanced techniques, and third-party tools that can be used in conjunction with DAC's tools. Both the novice technical investigator and the experienced audio technician should benefit from this 50% classroom, 50% hands-on training experience. For the on-site version of this course, a DAC instructor will travel to the customer's facility, anywhere in the continental United States, and provide training for up to 10 students. All travel, lodging, and meals expenses for the instructor, plus all training equipment and materials, are included in the price. Customer must provide training room with sufficient space, furniture, and power to accommodate 10 students, the instructor, and 6 computer workstations.

Each Additional Student for On-Site Training (up to 18 students maximum per class):   **$908**

Forensic Audio and Video Services

DAC has a qualified team of experts that provide audio and video clarification services as needed on an hourly basis. This service is a great benefit to those agencies who have occasional need of audio and video processing, but not enough to warrant the purchase of in-house equipment and training. All Forensic Audio and Video Services Professional Labor Categories are provided at an hourly rate, including all overhead costs. For longer term projects, rates are specified for Year 1, Year 2, and Year 3. Materials and travel are not included in these rates; these items would be billed either at actual cost or, in the case of DAC products, per the relevant DAC price list.

Engineering Services

DAC offers Engineering services for the purpose of modifying existing DAC audio and video products; designing new audio, video, and/or related products; integrating audio, video, and/or related products to provide a complete system solution; and providing comprehensive technical support and training on these customized items. All Engineering Professional Labor Categories are provided at an hourly rate, including all overhead costs for employees working at the DAC facility. For longer term projects, rates are specified for Year 1, Year 2, and Year 3. Materials and travel are not included in these rates; these items would be billed either at actual cost or, in the case of DAC products, per the relevant DAC price list.

Professional Labor Categories

Forensic Audio and Video Services:

Job Title: Forensic Audio / Video Expert
Minimum/General Experience: At least 12 years of direct experience and training in the forensic analyses of audio and video media, both analog and digital, in major governmental and/or private laboratories. Has published peer-reviewed scientific papers in forensic, engineering and/or scientific journals regarding the audio/video forensic field and is a member of appropriate professional societies. Has attended specialized seminars, workshops, classes, and professional society meetings regarding the underlying science and/or methodology used in the appropriate forensic disciplines. Has testified as an expert in judicial proceedings.
Functional Responsibility: Conducts forensic analyses of audio and video media, both analog and digital, to authenticate recordings, improve intelligibility, identify/classify voice and non-voice signals, and compare voice samples; analyzes digital images to enhance quality and review metadata information; provides on-site evaluations of acoustical sounds and environments; prepares transcriptions; presents expert testimony and assists attorneys in preparing for cross-examination of opposing experts; and evaluates appropriate recording and analysis equipment.
Minimum Education: Bachelor of Science Degree in an applicable physical science or engineering discipline, such as Physics, Computer Science or Electrical/Electronic Engineering.

Engineering Services:

Job Title: Program Manager
Minimum/General Experience: 10 years of related technical and managerial experience. Ability to manage complex program activities and act as customer liaison for program progress reports. A Master's degree substitutes for two years experience and a Ph.D. substitutes for 5 years experience.
Functional Responsibility: Management position provides overall direction of program activities and personnel. Manages functional area or business line programs that are sensitive or critical in nature, broad in scope and impact, and significant in terms of company-committed resources. Provides senior interface between client and company resources and manager assigned programs to meet client requirements. Works with the client and program director to establish policy and strategic direction for programs. Communicates with senior levels of the client on a frequent basis. Ensures client satisfaction with company performance. Responsible for program oversight of budget, planning and scheduling, progress reporting, earned value, performance analysis, technical risk analysis, financial planning, quality assurance and quality control, and delivery of services. Monitors assigned project managers to ensure that appropriate technical and administrative personnel are assigned to the program. Provides program leadership to assigned project teams.
Minimum Education: Bachelors Degree in applicable engineering discipline such as Electrical Engineering or Computer Science, or equivalent education/experience.

Job Title: Project Engineer
Minimum/General Experience: Must have 5-10 years experience of digital audio- and video-related project work. Provides high-level technological problem solving, leads and/or serves as primary technical resource for engineering design and systems integration effort. Operates with considerable latitude.
Functional Responsibility: Engineering position performs in respective engineering discipline of systems engineering, electrical engineering, digital signal processing, computer software development, human factors engineering, or other relevant engineering discipline. Provides a high level of administrative and technical support. This includes completing complex and lengthy technical reports, proposals, and creating and maintaining complex systems and databases in compliance with various organizational requirements.
Minimum Education: Bachelor's Degree in applicable engineering discipline such as Electrical Engineering or Computer Science, or equivalent education/experience. Master's degree preferred.

Job Title: Software Developer
Minimum/General Experience: Five to ten years of applications programming experience in the area of digital audio and video.
Functional Responsibility: Engineering position develops application programs in accordance with program and system design specifications. Translates detailed design into coded instructions and database structures. Tests, debugs and refines programs to produce the desired results. Refines programs to reduce operating time and efficiency. Develops all necessary documentation including operational procedures.
Minimum Education: Bachelor's Degree in applicable engineering discipline such as Electrical Engineering or Computer Science, or equivalent education/experience.

Job Title: Hardware Design Engineer
Minimum/General Experience: Five to ten years of experience in the area of digital audio and video hardware design, including DSP, analog and digital, power, PCB layout oversight, and packaging design.
Functional Responsibility: Engineering position performs in respective engineering discipline of systems engineering, electrical engineering, digital signal processing, human factors engineering, or other relevant engineering discipline.
Minimum Education: Bachelor's Degree in applicable engineering discipline such as Electrical Engineering or equivalent education/experience.

Job Title: Manufacturing Engineer
Minimum/General Experience: Five to 10 years of experience in electronic manufacturing, particularly in the area of SMT PCB assembly.
Functional Responsibility: Engineering position responsible for developing and communicating the required manufacturing methods, testing procedures, bills of materials, and all manufacturing drawings and documents as necessary to produce electronic devices in the necessary quantities using either in-house or outsourced manufacturing resources. Analyzes failure rates of manufactured products, recommends design changes as necessary to minimize the recurrence of faults and defects.
Minimum Education: Bachelor's Degree in applicable engineering discipline such as Electrical Engineering, Industrial Engineering, or equivalent education/experience.

Job Title: Junior Engineer / Draftsman
Minimum/General Experience: One to three years of experience in digital systems and software design, testing, and/or documentation tasks.
Functional Responsibility: Under the supervision of a more senior engineer, performs in respective engineering discipline of systems engineering, electrical engineering, digital signal processing, human factors engineering, or other relevant engineering discipline. Prepares detailed mechanical and electronic design drawings using CAD and other tools.
Minimum Education: Bachelor's Degree in applicable engineering discipline such as Electrical Engineering or equivalent education/experience.

Job Title: Technical Support / Training Specialist
Minimum/General Experience: Three to five years of experience providing customer technical training and technical support for digital audio- and video-related products.
Functional Responsibility: Works with both the design team and the customer to get a complete understanding of both the technical capabilities and the application of the product, then develops training curricula and materials as necessary to provide operational training. Provides feedback to the design team as technical issues and/or new feature needs are identified, drives these to final resolution on behalf of the customer.
Minimum Education: Bachelor's Degree in applicable engineering discipline such as Electrical Engineering or equivalent education/experience.

Job Title: Technician
Minimum/General Experience: One to three years of experience in digital systems checkout and testing.
Functional Responsibility: Under the supervision of a more senior engineer, runs tests on electronic products after they are manufactured to ensure they perform according to specifications. Also, runs tests on returned items to diagnose faults and makes repairs as necessary to restore the devices' proper operation.
Minimum Education: Associate's Degree in applicable technical discipline such as Electronic or Electrical Engineering, or equivalent education/experience.

Job Title: Electronic Assembler
Minimum/General Experience: One to three years of experience assembling digital and analog circuit boards and packaging.
Functional Responsibility: Performs detailed assembly of surface-mount (SMT) printed circuit boards (PCBs) and electronic packaging using the prescribed manufacturing methods and documentation.
Minimum Education: High School Diploma or equivalent education/experience.

Job Title: Administrative Assistant / Clerk
Minimum/General Experience: One to three years of experience in general office and clerical work.
Functional responsibility: Provides administrative assistance and support to an organizational area. Typical functions include preparing project correspondence and reports; maintaining project logs; preparing documents for review and edit; and coordinating administrative processes and issues for the supported element; exercises independent judgment within established administrative policy and procedural guidelines. Helps to prepare budgets and schedules.
Minimum Education: Bachelor's Degree in applicable discipline such as Business Administration, Accounting, or equivalent education/experience.

Labor Category	Billing Rate (Year 1)	Billing Rate (Year 2)	Billing Rate (Year 3)
Forensic Audio/Video Expert	$228.13	$239.53	$251.50
Program Manager	$114.06	$119.77	$125.75
Project Engineer	$104.94	$110.18	$115.70
Software Developer	$95.81	$100.60	$105.63
Hardware Design Engineer	$95.81	$100.60	$105.63
Manufacturing Engineer	$95.81	$100.60	$105.63
Junior Engineer / Draftsman	$73.00	$76.65	$80.48
Technical Support / Training Specialist	$73.00	$76.65	$80.48
Technician	$50.19	$52.70	$55.33
Electronic Assembler	$36.50	$38.33	$40.24
Administrative Assistant / Clerk	$36.50	$38.33	$40.24

Digital Audio Corporation